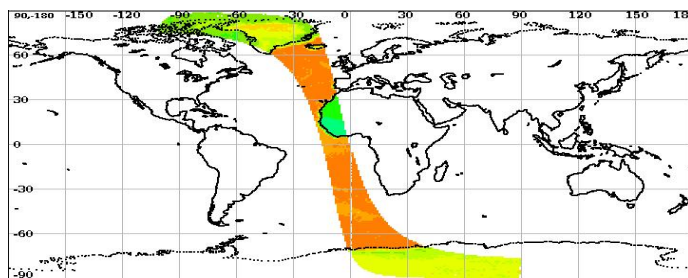


Scatsat-1 Scatterometer Level-2A Data Quality Evaluation Report

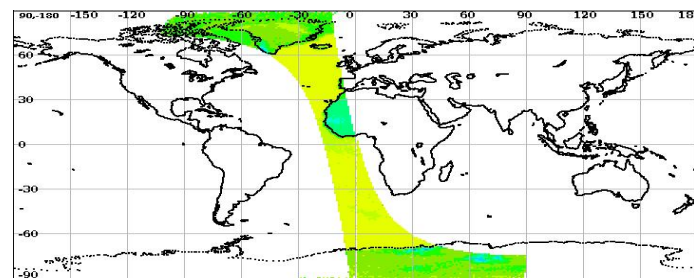
| Satellite | Sensor | Start Orbit | End Orbit |
|----------------|-----------------|-------------------|-----------------|
| SCATSAT-1 | Scatterometer | 2272 | 2273 |
| WV Cells Along | WV Cells Across | EquatorCrossDate | Production Date |
| 404 | 36 | 01-03-2017 | 01-03-2017 |
| Direction | WVC Size(km) | Processor Version | |
| SN | 50 | 1.1.1 | |

Brightness Temperature

Inner Beam (HH)

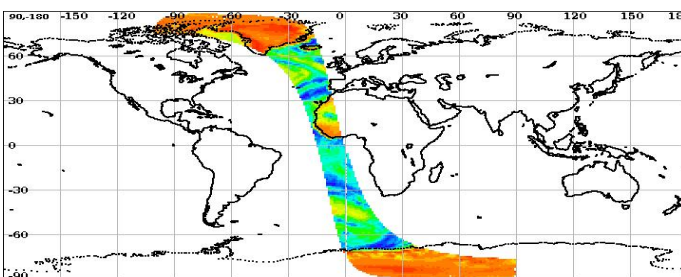


Outer Beam (VV)

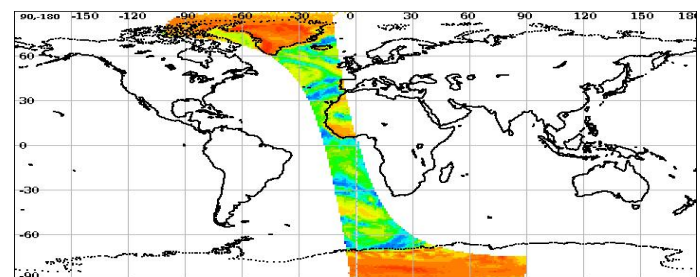


Sigma0(dB)

Inner Beam (HH)



Outer Beam (VV)



Invariant Site Sigma-0 Statistics for Ascending/Descending, Fore/Aft in HH/VV beams

| Site Name | Center Lat | Center Lon | Beam | Node | ScanDir | Sigma0 Min | Sigma0 Max | Sigma0 Mean | Sigma0 Std | BT Min | BT Max | BT Mean | BT Std |
|-------------|------------|------------|-------|------|---------|------------|------------|-------------|------------|--------|--------|---------|--------|
| GreenLand_2 | 77.50 | -41.50 | Inner | DSC | Aft | -6.80 | -4.40 | -5.23 | 0.73 | 122.02 | 171.43 | 151.84 | 13.35 |
| GreenLand_2 | 77.50 | -41.50 | Outer | DSC | Aft | -5.65 | -2.56 | -4.08 | 0.84 | 182.06 | 234.62 | 208.64 | 12.97 |
| GreenLand_2 | 77.50 | -41.50 | Inner | DSC | Fore | -8.44 | -1.82 | -4.58 | 2.09 | 132.00 | 148.00 | 137.70 | 4.78 |
| GreenLand_2 | 77.50 | -41.50 | Outer | DSC | Fore | -7.35 | -3.05 | -4.44 | 1.31 | 174.79 | 233.44 | 211.40 | 18.61 |
| GreenLand_3 | 71.55 | -42.45 | Inner | DSC | Aft | -11.27 | -8.11 | -9.96 | 0.95 | 150.00 | 204.86 | 182.84 | 12.98 |
| GreenLand_3 | 71.55 | -42.45 | Outer | DSC | Aft | -13.57 | -7.18 | -10.62 | 1.41 | 194.99 | 254.85 | 221.73 | 16.47 |
| GreenLand_3 | 71.55 | -42.45 | Inner | DSC | Fore | -12.68 | -8.11 | -10.06 | 1.21 | 149.75 | 201.09 | 172.75 | 12.76 |
| GreenLand_3 | 71.55 | -42.45 | Outer | DSC | Fore | -11.77 | -7.19 | -10.23 | 1.20 | 191.53 | 269.30 | 224.64 | 17.32 |
| GreenLand_1 | 74.69 | -42.50 | Inner | DSC | Aft | -10.88 | -7.12 | -8.70 | 0.81 | 151.49 | 200.89 | 172.19 | 10.18 |
| GreenLand_1 | 74.69 | -42.50 | Outer | DSC | Aft | -10.62 | -7.05 | -8.78 | 1.16 | 196.97 | 244.10 | 222.98 | 16.12 |
| GreenLand_1 | 74.69 | -42.50 | Inner | DSC | Fore | -11.57 | -6.60 | -8.61 | 1.52 | 144.28 | 183.77 | 160.44 | 12.29 |
| GreenLand_1 | 74.69 | -42.50 | Outer | DSC | Fore | -9.07 | -6.37 | -7.93 | 0.76 | 183.41 | 244.83 | 221.07 | 15.00 |

Level-2A Cell-wise Deviations*

| Static Parameter Statistics (variations over the cell grid) for the Inner and Outer Beam | | | | | | | | | | | | |
|--|-----------------|---------|--------------|---------|---------|--------------|-----------------|---------|--------------|---------|---------|--------------|
| Parameter | Inner Beam (HH) | | | | | | Outer Beam (VV) | | | | | |
| | Aft | | | Fore | | | Aft | | | Fore | | |
| | Min Rng | Max Rng | Bad Occ. (%) | Min Rng | Max Rng | Bad Occ. (%) | Min Rng | Max Rng | Bad Occ. (%) | Min Rng | Max Rng | Bad Occ. (%) |
| Kpa | 0.00 | 0.07 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.07 | 0.00 |
| Kpb | 0.00 | 0.09 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.09 | 0.00 |
| Kpc | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Inc. Angle(deg) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Delta Azi.Angle(deg) | 0.00 | 39.18 | 24.13 | 0.00 | 37.83 | 25.31 | 0.00 | 164.12 | 12.57 | 0.00 | 56.24 | 13.13 |

| Category wise Dynamic Parameter Statistics (Variations over the Cell grid) | | | | | | | | | | | | | |
|--|-------------------|---------|---------|--------------|----------|---------|--------------|----------|---------|--------------|-----------|---------|--------------|
| Parameter | Beam | Sea Aft | | | Sea Fore | | | Land Aft | | | Land Fore | | |
| | | Min Rng | Max Rng | Bad Occ. (%) | Min Rng | Max Rng | Bad Occ. (%) | Min Rng | Max Rng | Bad Occ. (%) | Min Rng | Max Rng | Bad Occ. (%) |
| SNR(dB) | Inner (HH) | 0.00 | 53.27 | 8.15 | 0.00 | 49.15 | 10.71 | 0.00 | 30.70 | 0.24 | 0.00 | 27.82 | 0.40 |
| | Outer (VV) | 0.00 | 40.85 | 8.15 | 0.00 | 42.54 | 10.56 | 0.00 | 34.02 | 0.71 | 0.00 | 37.05 | 1.51 |
| Sigma0(dB) | Inner (HH) | 0.00 | 50.69 | 8.29 | 0.00 | 48.83 | 9.53 | 0.00 | 29.90 | 0.16 | 0.00 | 26.50 | 0.14 |
| | Outer (VV) | 0.00 | 41.62 | 8.28 | 0.00 | 41.35 | 8.09 | 0.00 | 33.67 | 0.58 | 0.00 | 30.12 | 0.97 |

| Parameter Specifications with in a cell | | | | | | | |
|---|-----|-----|-----|------------|----------|------------------|-------------|
| Parameter | Kpa | Kpb | Kpc | Inci (deg) | SNR (dB) | Delta Azi. (deg) | Sigma0 (dB) |
| Range | 1.0 | 1.0 | 1.0 | 3.0 | 20.0 | 10.0 | 20.0 |

■ Normal
 ■ Deviation
 ■ Alarming
 ■ High

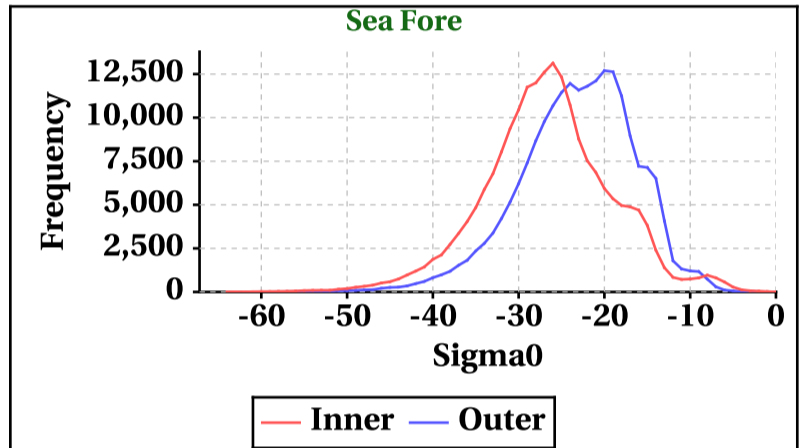
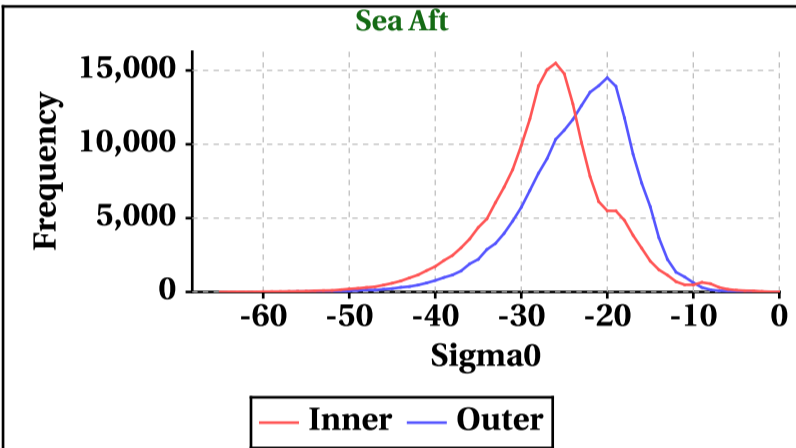
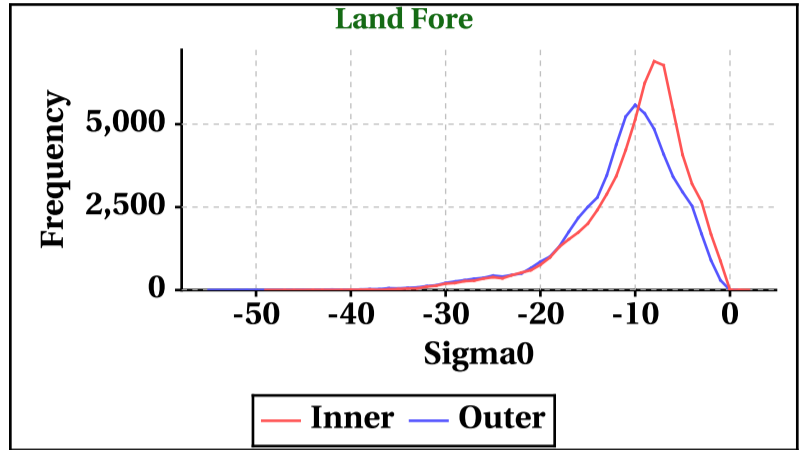
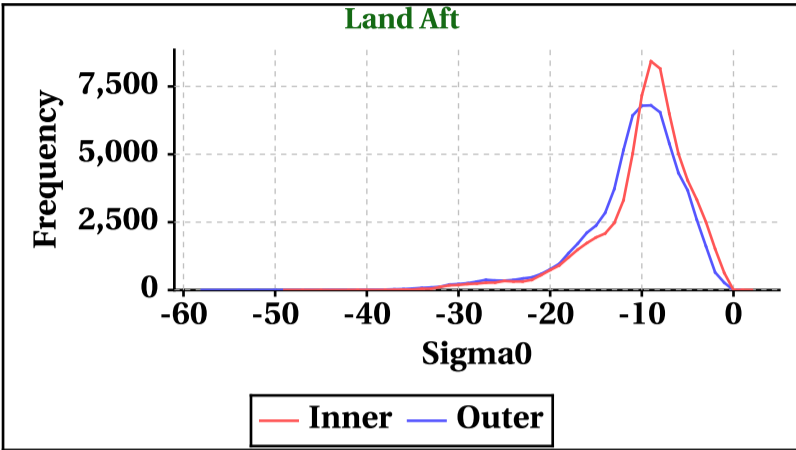
* Note: Deviations within a Cell for a category is observed and flagged if out of range specifications

Dynamic Range (Data Histograms)

Sigma0(db)

| Inner Beam (HH) | | | | |
|-----------------|----------|-----------|---------|----------|
| | Land Aft | Land Fore | Sea Aft | Sea Fore |
| Min | -49 | -49 | -65 | -64 |
| Max | 2 | 2 | -1 | -1 |

| Outer Beam (VV) | | | | |
|-----------------|----------|-----------|---------|----------|
| | Land Aft | Land Fore | Sea Aft | Sea Fore |
| Min | -58 | -55 | -60 | -59 |
| Max | 1 | 1 | -1 | -1 |



Brightness Temperature(K)

| Inner Beam(HH) | | | | |
|----------------|----------|-----------|---------|----------|
| | Land Aft | Land Fore | Sea Aft | Sea Fore |
| Min | 1 | 1 | 1 | 1 |
| Max | 333 | 331 | 285 | 275 |

| Outer Beam(VV) | | | | |
|----------------|----------|-----------|---------|----------|
| | Land Aft | Land Fore | Sea Aft | Sea Fore |
| Min | 1 | 1 | 1 | 1 |
| Max | 500 | 421 | 500 | 302 |

